

NWS Form E-5

(04-2006)

(PRES. BY NWS Instruction 10-924)

U.S. DEPARTMENT OF COMMERCE

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

NATIONAL WEATHER SERVICE

HYDROLOGIC SERVICE AREA (HSA)

San Juan, Puerto Rico

MONTHLY REPORT OF HYDROLOGIC CONDITIONS

REPORT FOR:

MONTH

YEAR

April

2013

TO: Hydrologic Information Center, W/OS31
NOAA's National Weather Service
1325 East West Highway
Silver Spring, MD 20910-3283

SIGNATURE

Althea Austin-Smith,
Service Hydrologist

DATE

05/14/2013

When no flooding occurs, include miscellaneous river conditions below the small box, such as significant rises, record low stages, ice conditions, snow cover, droughts, and hydrologic products issued (NWS Instruction 10-924).

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An X inside this box indicates that no flooding occurred within this hydrologic service area.

Summary: The San Juan ASOS reported 3.95 inches of rain for the month of April; 0.73 inches less than the normal of 4.68 inches. The ASOS rainfall report from Cyril E. King Airport in St. Thomas was 2.16 inches for the month of April; 0.58 inches less than the normal of 2.74 inches. The ASOS rainfall report from Christiansted Airport in St. Croix was 0.99 inches for the month of April; 1.14 inches less than the normal of 2.13 inches.

"A generally fair weather pattern prevailed across the local islands during most of the month with afternoon showers across portions of the Cordillera Central and western Puerto Rico each day. However, the limited low level moisture helped to suppress significant shower activity across the forecast area. Scattered to locally numerous showers and thunderstorms were finally seen across the local islands during the last week of the month. These showers were associated with an upper level trough across the local area combined with deep tropical moisture. During this period, considerable rainfall amounts were reported across central Puerto Rico, the San Juan Metro Area as well as Saint Croix"

Please see (<http://www.srh.noaa.gov/sju/?n=apr2013cr>) for March's Climate Report.

Most of the rainfall across the islands in April worked to erode the deficit after an extended dry period where soils were dry and river, reservoir, lake and cistern levels were low. The majority of the rainfall across the region occurred towards the end of the month, so it is to be expected that the greatest response in river flows and any other hydrologic impact across the region, also happened within this time frame. The heaviest rains (a short period of very high intensity rainfall) were at the end of the month and resulted in serious...but localized urban flash flooding in the San Juan Metro area and more specifically in Guaynabo, Puerto Rico. The Rio Piedras at Hato Rey crested a couple of feet above flood stage. Fortunately, there were no deaths or injuries reported in relation to this flood event.

(Please see details in the Local Storm Reports table)

Since the end of March, there has been some improvement to the rainfall deficit situation across the region...this ultimately resulted in a large decrease to the areas designated as "Abnormally Dry" across Puerto Rico. If this trend continues, expect to see a return to "normal" in the near future as far as the Drought Monitor is concerned.

See details of all flood reports in the LSR reports below:

Local Storm Reports for April 2013

..TIME...	...EVENT...	...CITY LOCATION...	...LAT.LON...
..DATE...MAG....	..COUNTY LOCATION..ST..	...SOURCE....
..REMARKS..			
1216 PM 04/24/2013	FLOOD	NAGUABO NAGUABO	18.21N 65.74W PR EMERGENCY MNGR
ROAD 31 IN NAGUABO BY LA PITINA SECTOR IS COMPLETELY FLOODED AND THEREFORE CLOSED. RIO BLANCO IS OUT OF ITS BANKS IN THAT AREA.			
0712 PM 04/28/2013	FLOOD	LARES LARES	18.30N 66.88W PR EMERGENCY MNGR
BARRIO PUEBLO, SEBORUQUILLO SECTOR WAS REPORTED FLOODED AS WELL AS BARRIO GUAJATACA.			
0149 PM 04/30/2013	FLOOD	GUAYNABO GUAYNABO	18.39N 66.11W PR PUBLIC
ROAD PR-177 WAS REPORTED FLOODED IN FRONT OF AMERICAN MILITARY ACADEMY.			
0206 PM 04/30/2013	FLOOD	SAN JUAN SAN JUAN	18.41N 66.06W PR PUBLIC
DE DIEGO AVENUE INTERSECTION WITH ROOSEVELT AVENUE WAS REPORTED FLOODED.			
0216 PM 04/30/2013	FLASH FLOOD	SAN JUAN SAN JUAN	18.41N 66.06W PR EMERGENCY MNGR
HEAVY RAIN OVER THE SAN JUAN METROPOLITAN AREA RESULTED THE SMALL STREAM RISEN TO 1 TO 2 FEET OVER THE RIVER BANKS...AFFECTING THE DIEGO AVENUE AND PINERO AVENUE.			
0223 PM 04/30/2013	FLASH FLOOD	GUAYNABO GUAYNABO	18.39N 66.11W PR BROADCAST MEDIA
ROAD IN FRONT OF GARDEN HILL SHOPPING CENTER WAS FLOODED AND CLOSED. ALSO, MARTINEZ NADAL AVENUE WAS CLOSED.			
0226 PM 04/30/2013	FLASH FLOOD	GUAYNABO GUAYNABO	18.39N 66.11W PR BROADCAST MEDIA

ESMERALDA AVENUE WAS REPORTED FLOODED.				
0249 PM	FLASH FLOOD	SAN JUAN		18.41N 66.06W
04/30/2013		SAN JUAN	PR	PUBLIC
KENNEDY AVENUE CLOSED DUE TO FLOODING NEAR METRO OFFICE BUILDING.				
0259 PM	FLASH FLOOD	SAN JUAN		18.41N 66.06W
04/30/2013		SAN JUAN	PR	PUBLIC
KENNEDY AVENUE WAS REPORTED FLOODED WITH CARS STRANDED.				
0304 PM	FLASH FLOOD	SAN JUAN		18.41N 66.06W
04/30/2013		SAN JUAN	PR	PUBLIC
KENNEDY AVENUE FLOODED AT EXIT 6 TOWARD SAN JUAN.				
0313 PM	FLASH FLOOD	GUAYNABO		18.39N 66.11W
04/30/2013		GUAYNABO	PR	PUBLIC
SAN PATRICIO SHOPPING CENTER WAS REPORTED FLOODED.				
0321 PM	FLASH FLOOD	SAN JUAN		18.41N 66.06W
04/30/2013		SAN JUAN	PR	PUBLIC
ROOSEVELT AVENUE IN FRONT OF SAN PATRICIO SHOPPING CENTER WAS FLOODED AND IMPASSABLE				

The approximate amounts of Hydrologic Products issued during the month of April are as follows:

Non-Routine Hydrologic Products Issued:	Approximate number of Products for the month
Hydrologic Outlooks (SJUESFSJU)	0
Flood Watches (SJUFFASJU)	0
Flood Warnings (SJUFLWSJU)	0
Flash Flood Warnings (SJUFFWSJU)	1
Flash Flood Statements (SJUFFSSJU)	1
Urban/Small Stream Flood Advisories (SJUFLSSJU)	43

For monthly "radar totals" use the archive of the Advanced Hydrologic Prediction Service (AHPS) - click on the Precipitation interface for San Juan, Puerto Rico and request the duration you would like to view...daily or monthly remembering that the 24 hour totals are from 12z – 12z (8am to 8am in PR) - [AHPS archive of radar totals/ images](#). Here are the [April 2013 totals](#).